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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/379,081	08/23/1999	HOWARD E. LEVIN	SC10864TH	9847
7590 05/12/2004			EXAMINER	
HARRY A WOLIN			TRAN, PHUC H	
MOTOROLA INC AUSTIN INTELLECTUAL PROPERTY LAW SECTION			ART UNIT	PAPER NUMBER
7700 WEST PARMER LANE MD TX32 PL02 AUSTIN, TX 78729			2666	5
			DATE MAILED: 05/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/379,081	LEVIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	PHUC H TRAN	2666			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdray. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-35 are subject to restriction and/or of the specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. election requirement. er. epted or b) objected to by the drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Ex		•			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

Application/Control Number: 09/379,081

Art Unit: 2666

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-13, 32-34, drawn to detection of a characteristic of a communication channel, classified in class 370, subclass 343.
 - II. Claims 14-19, 35, drawn to setting a desired communication rate for the communication channel, classified in class 370, subclass 232.
 - III. Claims 20-21, drawn to configuring the communication line for transmission in FDM, and detecting changing line conditions, classified in class 370, subclass 286.
 - IV. Claims 22-25, drawn to comparison a line length of the communication channel to a threshold, classified in class 370, subclass 251.
 - V. Claims 26-27, 29, drawn to receiving a mode priority and frequency region list, determining characteristic of the communication channel, classified in class 370, subclass 328.
 - VI. Claims 28, 30-31, drawn to determining a capacity for a plurality of different frequency regions of the communication channel, classified in class 370, subclass 468.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I- VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be

Application/Control Number: 09/379,081

Art Unit: 2666

separately usable. In the instant case, invention I-VI has separate utility such as determination above. See MPEP § 806.05(d).

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II-V, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUC H TRAN whose telephone number is (703) 308-7471. The examiner can normally be reached on M-F (8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RAO SEEMA can be reached on (703) 308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuc Tran Assistant Examiner Art Unit 2664

P.t 4/28/04

DANGTUN RICCOURT (2007) UR